

▮ / Descriptions

SOT-363 NPN+NPN

Double silicon NPN and NPN transistor in a SOT-363 Plastic Package

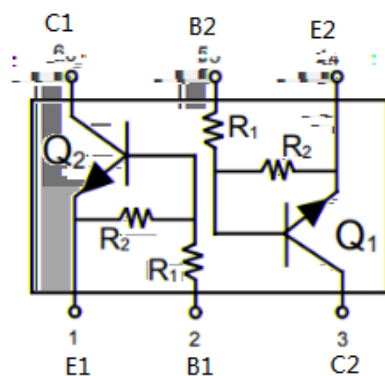
"/ Features

With built-in bias resistors, simplify circuit design, reduce a quantity of parts and manufacturing process, HF Product.

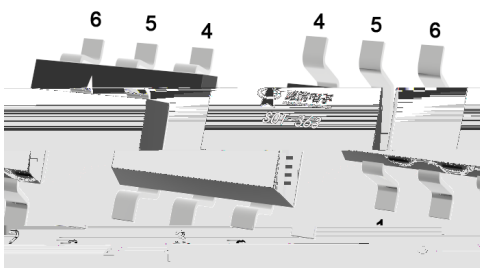
+ / Applications

Switching applications, interface circuit and driver circuit applications.

🔌 / Equivalent Circuit



🔌 / Pinning



🔌 / h_{FE} Classifications & Marking

Marking	H214
---------	------

1 / Absolute Maximum Ratings(Each Transistor,Ta=25;)

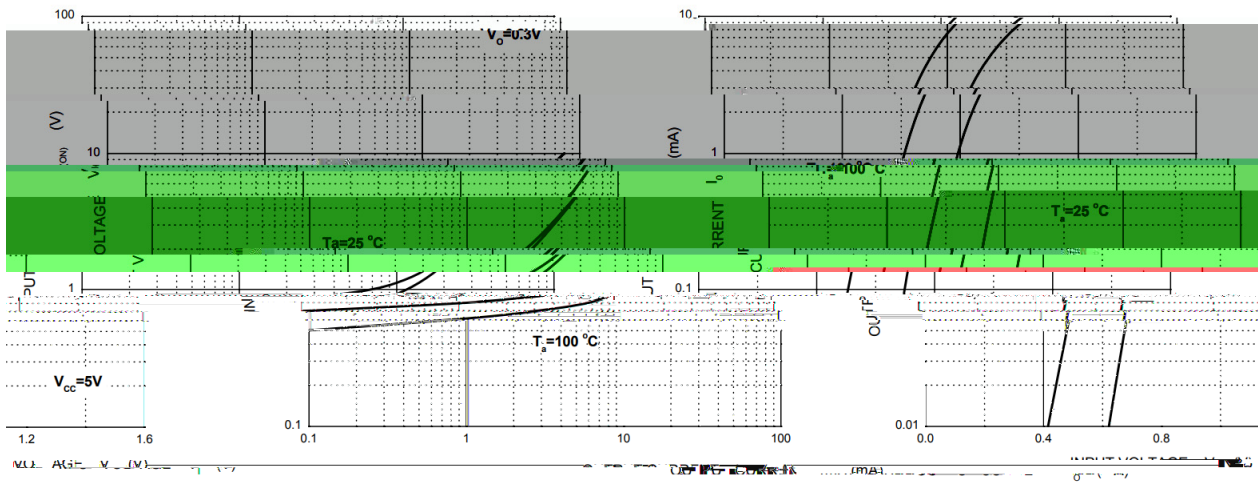
Parameter	Symbol	Rating	Unit
Output Voltage	V_{CC}	50	V
Input Voltage	V_{IN}	40	V
		-6	V
Output Current	I_{CM}	100	mA
	I_O	70	mA
Collector Dissipation	P_C	150	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

2 / Electrical Characteristics((Each Transistor,Ta=25;)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input Voltage(OFF)	$V_{I(off)}$	$V_{CC}=5.0V$ $I_O=100\text{ A}$	0.3			V
Input Voltage(ON)	$V_{I(on)}$	$V_O=0.3V$ $I_O=1mA$			1.4	V
Output Voltage	$V_{O(on)}$	$I_O=5mA$ $I_I=0.25mA$			0.3	V
Input Current	I_I	$V_I=5.0V$			0.88	mA
Output Cut-off Current	$I_{O(off)}$	$V_{CC}=50V$ $V_I=0V$			0.5	A
DC Current Gain	G_I	$V_O=5.0V$ $I_O=5.0mA$	68			
Transition Frequency	f_T	$V_{CE}=10V$ $I_C=5.0mA$ $f=100MHz$		250		MHz
Resistance1	R_1		7	10	13	K
Resistance Ratio	R_2/R_1		3.7	4.7	5.7	

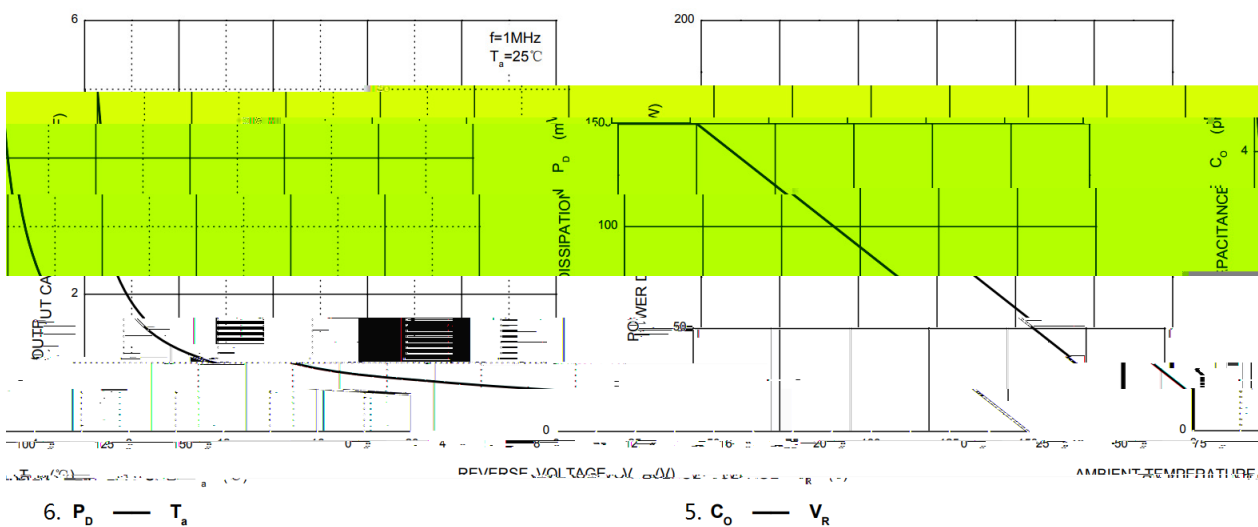
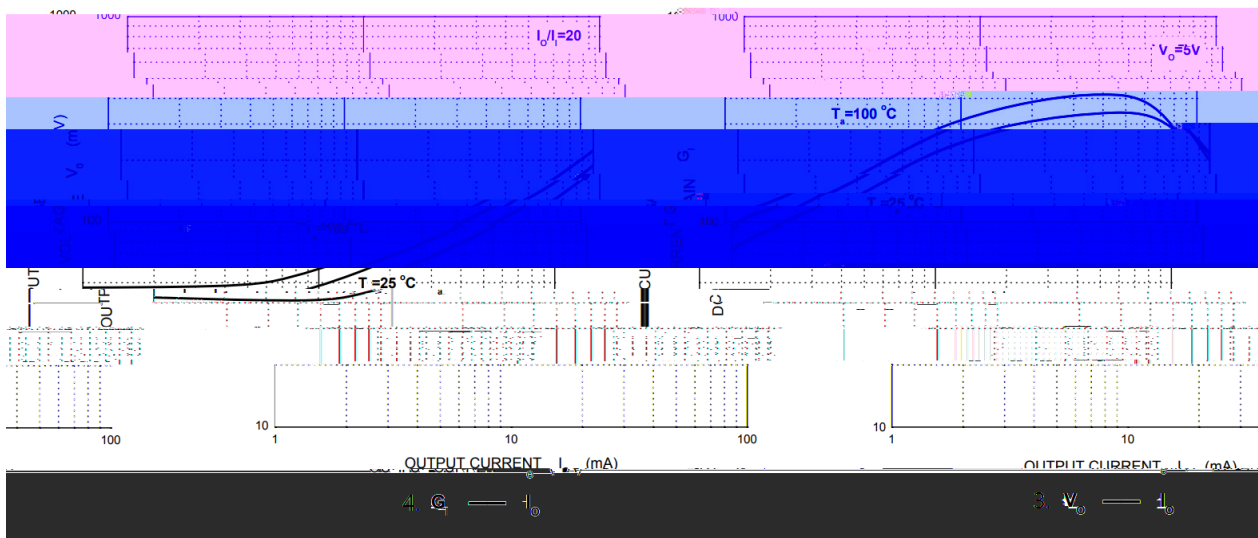


/ Electrical Characteristic Curve

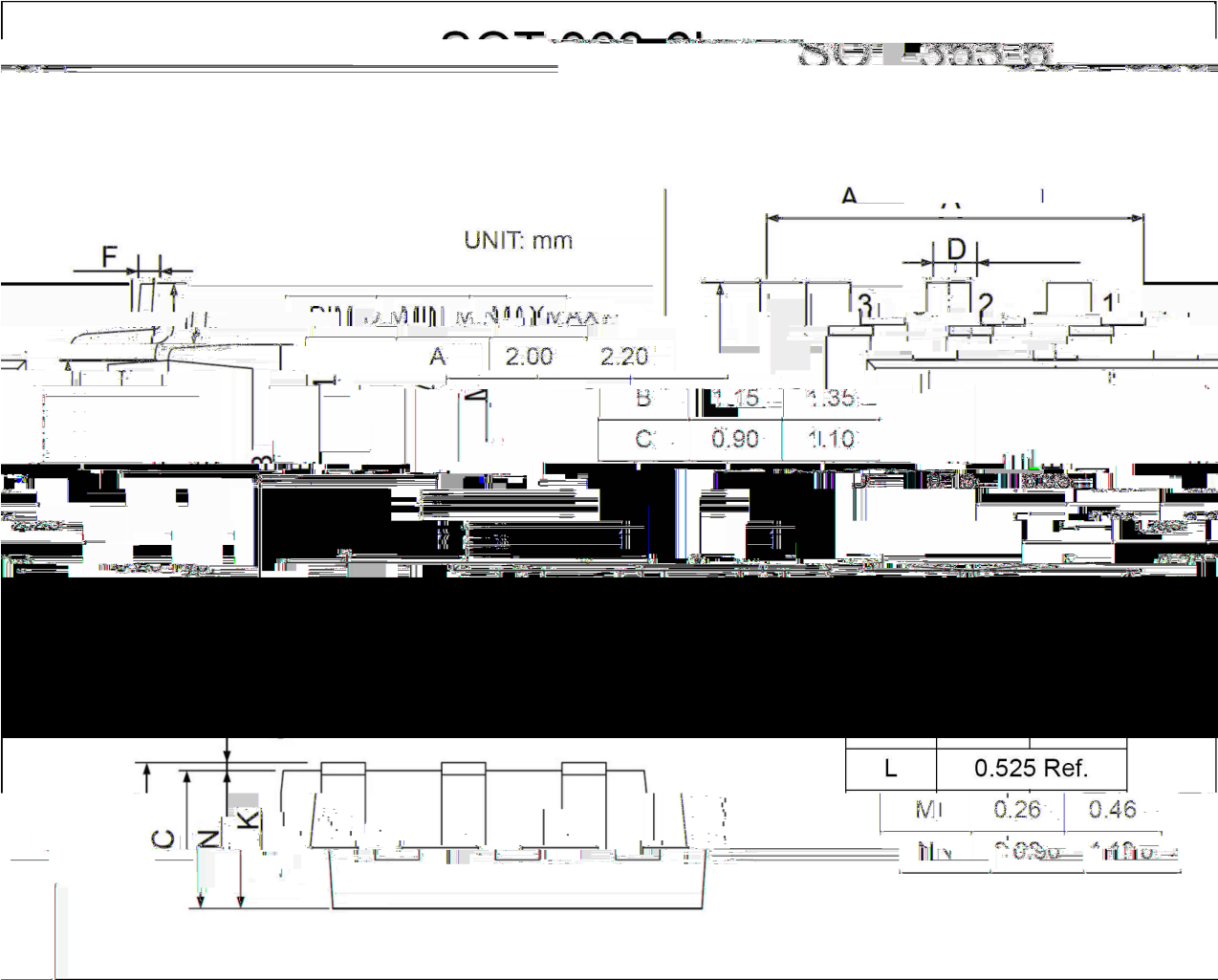


2. OFF Characteristics

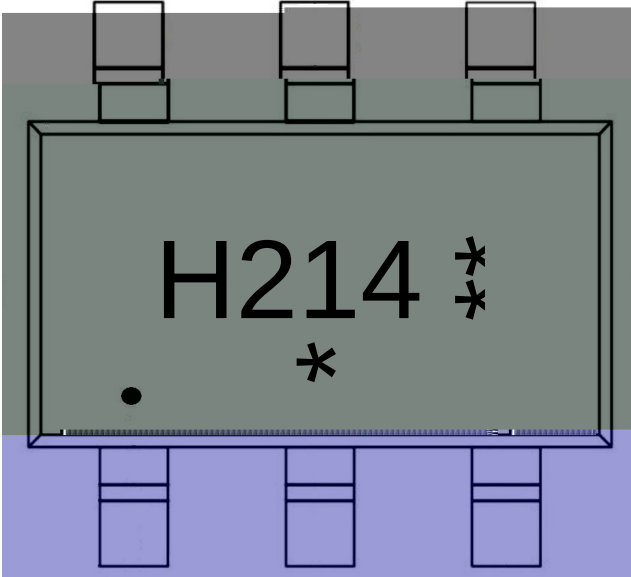
1. ON Characteristics

6. P_d — T_a 5. C_o — V_R

Package Dimensions



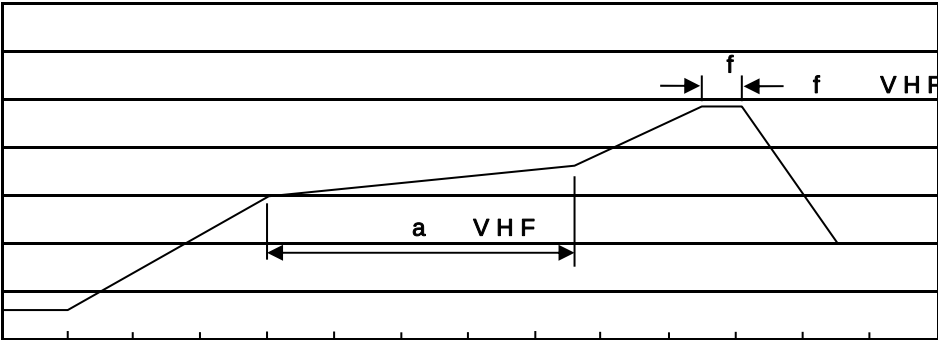
 / Marking Instructions



	" 1 "
H	Company Code
214	Product Type Code
***:	Lot No. Code, code change with Lot No
Note:	
	" 1 " Pin
H	Company Code
214	Product Type Code
***:	Lot No. Code, code change with Lot No

 (x) / 150~180℃, 60~90sec, 245±5℃, 5±0.5sec, 2~10℃/sec

7HPSHUDWXUH



7LPH VHF

Note:

- 11501806090sec;

2245±55±0.5sec;

3210/sec.
- 1.Preheating:150~180℃, Time:60~90sec.

2.Peak Temp.:245±5℃, Duration:5±0.5sec.

3. Cooling Speed: 2~10℃/sec.

 / Resistance to Soldering Heat Test Conditions

260±5℃10±1 sec. Temp.:260±5℃Time:10±1 sec

 / Packaging SPEC.

/ REEL

Package Type 7~E	Units ;>H					Dimension ;>p . (unit /mm³)		
	Units/Reel /	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
SOT-363	3,000	10	30,000	6	180,000	7 s ×8	180×120×180	390×385×205

 / Notices